	8463-202206-EZZ ► Quizzes ► 202206UEC	Update this 0					
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	on Friday, 15 July 2022, 04:12 PM on Friday, 15 July 2022, 04:12 PM						
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Gra	de 0 out of a maximum of 10 (0%)						
1 🕏	A random variable follows a Poisson	distribution with $\lambda = 0.84$ . Calculate the third raw moment of the distribution					
Marks: 1							
	Answer:						
	, and the same is	X					
	Make comment or override grade						
	Incorrect Correct answer: 3.549504						
	Marks for this submission	n: 0/1.					
		·					
2 🕏	Dental Insurance Company sells a policy that covers two types of dental procedures: root canals and fillings. There is a limit of 1 root canal per year and a separate limit of 2 fillings per year. The number of root canals a person needs in a year						
Marks: 1	follows a Poisson distribution with $\lambda = 1.781$ , and the number of fillings a person needs in a year follows a Poisson distribution with $\lambda = 3.562$ . The company is considering replacing the single limits with a combined limit of 3 claims per year, regardless of the type of claim. Determine the change in the expected number of claims per year if the combined limit is adopted.						
	regardiess of the type of claim. Determine the change in the expected number of claims per year if the combined limit is adopted.						
	Answer:						
	Allswei .	X					
	Make comment or override grade						
	Incorrect						
	Correct answer: 0.1927  Marks for this submission	יי 10/1					
	Trains for emb submission						
3 🕏	For a certain (a, b, 0) distribution,						
Marks: 1	• a = 0.78355,						
	<ul> <li>b = 2.35065, and</li> <li>1000p<sub>0</sub> = 2.194988.</li> </ul>						
	•						
	Calculate the probability of exactly	events occurring times 1000, i.e. 1000p <sub>3</sub>					
	A						
	Answer:	X					
	Make comment or override grade						
	Incorrect						
	Correct answer: 21.118442	0.1					
	Marks for this submission	1. U/ 1.					
4 👺	For a discrete probability distribution	n, you are given the recursion relation					

	Determine p <sub>4</sub>				
	Answer:		$\exists x$		
	Make comment or override grade Incorrect Correct answer: 0.002063 Marks for this submission	: 0/1.			
<b>5</b> 🕏 Marks: 1	For a zero-modified Poisson distributi	on, $p_1 = 0.1557$ , $p_2 = 0.0623$ , calculate the probability of 0			
	Answer:		_ <b>x</b>		
	Make comment or override grade Incorrect Correct answer: 0.7615 Marks for this submission	: 0/1.			
<b>6</b> ☑ Marks: 1	You are given:  • $p_k$ denotes the probability that  • $p_k = p_{k-1}(9/k)$ .	the number of claims equals k for $k = 0, 1, 2,$			
	Using the corresponding zero-modified	d claim count distribution with $p_0^M = 0.112$ , calculate $1000p_1^M$ .			
	Answer:		_ <b>x</b>		
	Make comment or override grade Incorrect Correct answer: 0.986413 Marks for this submission	: 0/1.			
<b>7</b> 🖢 Marks: 1	You are given:	the number of claims equals k for $k=0,1,2,\dots$ 2,			
		d claim count distribution with $p_0^M = 0.163$ , calculate the variance of the distribution			
	Answer:		$\exists x$		
	Make comment or override grade Incorrect Correct answer: 13.81 Marks for this submission	: 0/1.			
<b>8</b> ☑ Marks: 1	A discrete distribution has the followi • $p_k = c(1/4k - 1/44)p_{k-1}$ for $k = p_0 = 0.017342$				
	Calculate c				
	Answer:		_ <b>x</b>		
	Make comment or override grade Incorrect Correct answer: 22 Marks for this submission	: 0/1.			

9 🕏 Marks: 1	$N^{M}$ is a discrete random variable with probability function which is a member of the (a, b, 1) class of distributions. You are given $P(z) = 0.44 + 0.56[e^{2.30(z-1)_{-}} e^{-2.30}]/[1-e^{-2.30}]$ Calculate the variance of the distribution					
	Answer:		X			
	Make comment or override grade					
	Incorrect Correct answer: 2.6748 Marks for this submission: 0/1.					
10 🐷 Marks: 1	For a random variable $N$ which fol $ \bullet  E(N) = 5.04 $ $ \bullet  V(N) = 40.12 $ Determine $P(N \ge 1)$	ows a zero-modified geometric distribution:				
	Answer:		x			
	Make comment or override grade					
	Incorrect Correct answer: 0.72 Marks for this submissior	: 0/1.				

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